

karuun®

The hidden treasure



FOCUS OPEN 2024
Silver



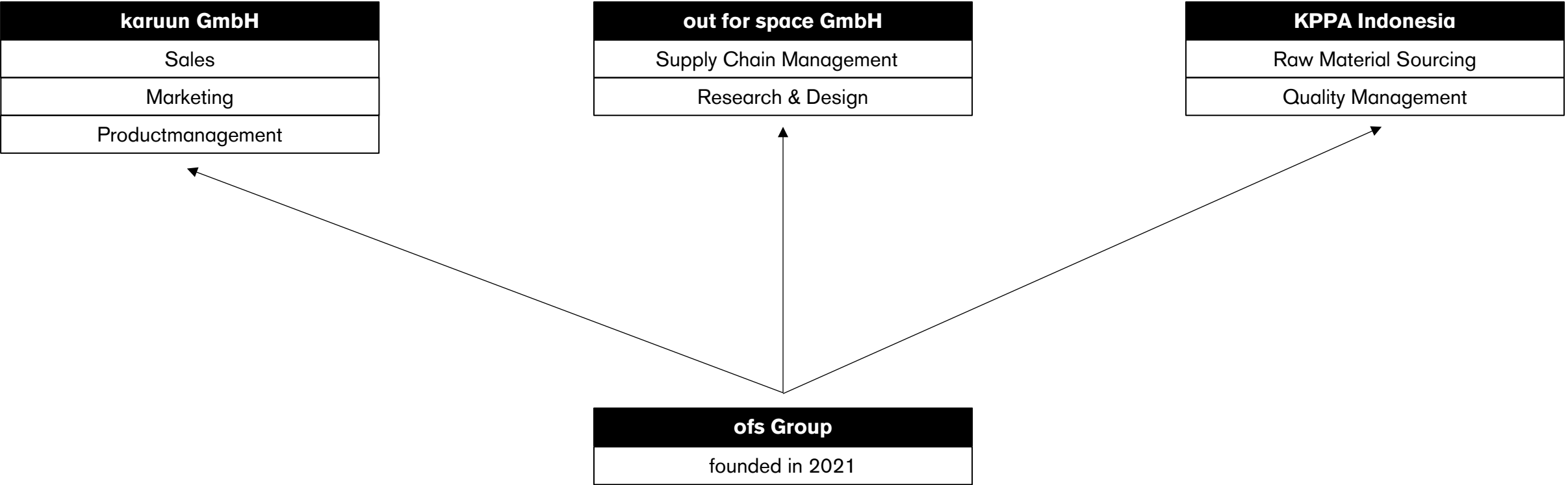
DGNB
SUSTAINABILITY
CHALLENGE
2024
INNOVATION
FINALIST



DGNB
SUSTAINABILITY
CHALLENGE
2024
BIODIVERSITÄT
FINALIST
SONDERPREIS

The ofs Group

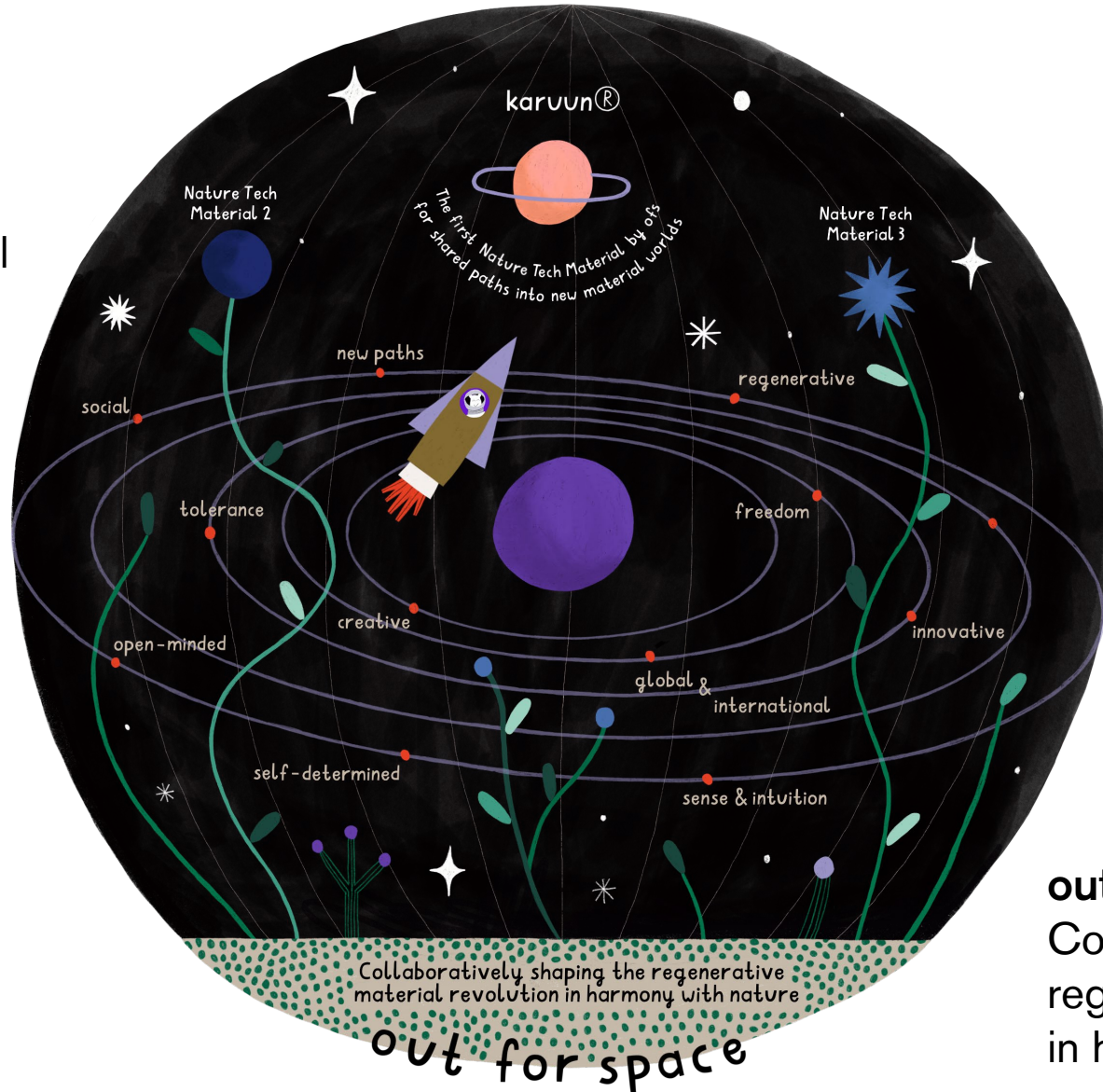
Our growth and structural development at a glance



Our Core Vision

karuun®

The first Nature Tech Material by out for space. For shared paths into new material worlds.



out for space

Collaboratively shaping the regenerative material revolution in harmony with nature.

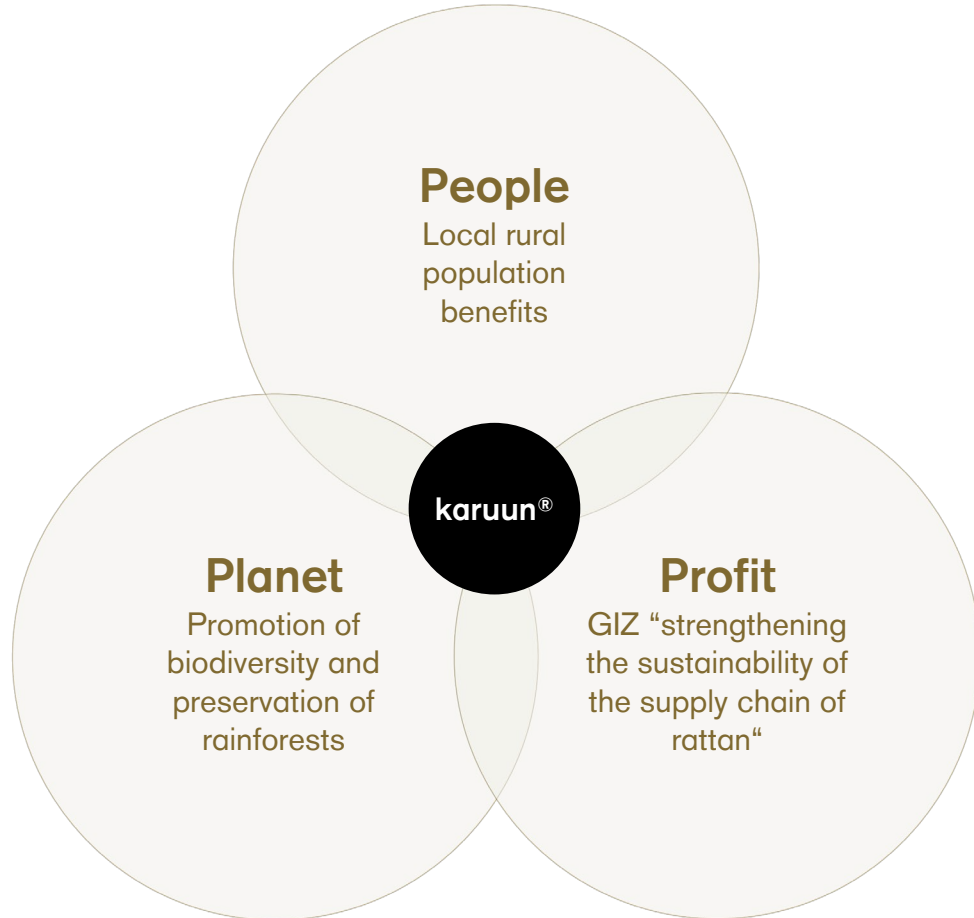
For people and nature



The karuun® cycle



Sustainability is at the heart of everything we do



RattanTrace-App



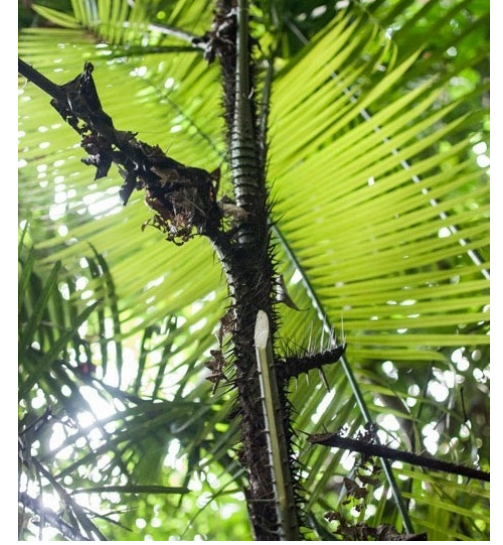
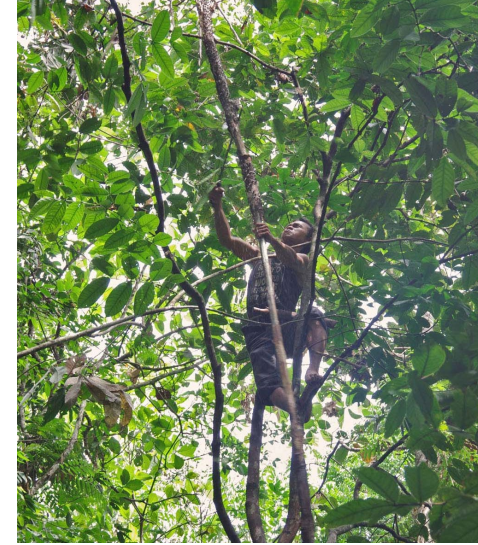
Social Leadership



10 of the 17 UN Sustainable Development Goals



Planting and harvesting



The story begins...

Rattan
an almost
forgotten
raw material





Facts

- type of palm
with the most subspecies
- fast-growing
~5 m per year
- tropical rainforest
primary as well as secondary forests
- ~600 species worldwide
~only 13 in use
- 80 % of market from Indonesia
falling demand
- up to Ø 10 cm and up to 150 m long
depending on type



Sustainability

- in symbiosis with the forest
rattan relies on surrounding trees
- rainforest conservation
more rattan – more rainforest
- land use change
Fairventures Worldwide and GIZ
- no monoculture
cultivation only in the rainforest
- environmentally-friendly harvest
harvested by hand
- fast-growing
harvested after ~10 years

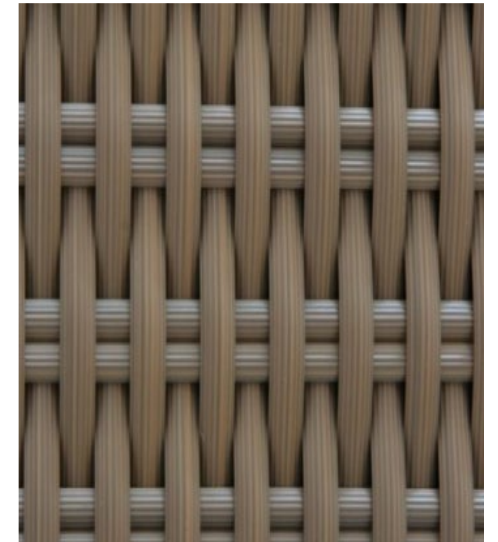
Advantages

- high elasticity
thermally deformable like no other wood
- light
approx. 400 kg/m³
- homogeneous structure
not a common wood grain, parallel fibres
- no splinters
due to the long fibres
- flame retardant
due to silica
- environmental background
alternative to plastic or glass fibres



Reanimate Rattan

- outdated design
mostly woven products
- incorrect applications
furniture for outdoors
- forgotten raw material
due to poor quality
- low level of development
no innovations
- confused with bamboo
similar skin, but it's not a grass like bamboo



Our production



Our processing technology

The rattan palm can transport water up to 150 m along its capillaries. out for space uses this natural property for a unique, patented finishing process.

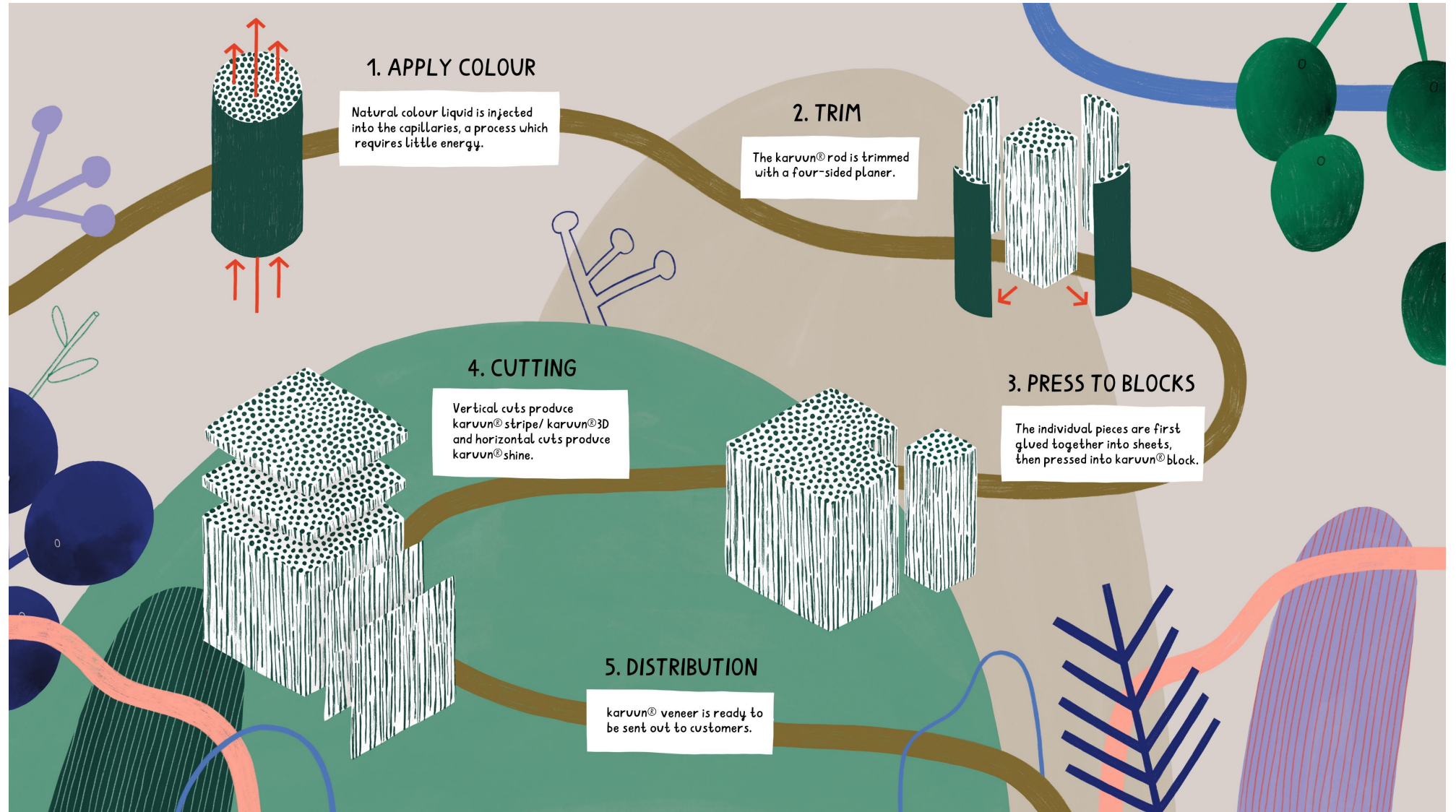




karuun® color

- custom capillary color
almost every color and combination possible
- treatment of the whole cross-section
coloring not only the surface
- innovative processing
color structure maintained after cutting
- various designs
from linear stripes to translucent spots
- seamless appearance
no glue visible
- light coloring possible
naturally light

The karuun® production



karuun® is natural perfection



karuun® stripe

Ideal for use as a surface or postforming elements and for coating all types of substrates.



karuun® shine

A lightweight material that is permeable to light and air, with exceptional stability, formability and feel.



Nature Tech Service

Development in harmony with nature.
Creating innovative products with karuun®.

Features and unique selling points

lightweight
formable

conductive
translucent

sustainable
low emission

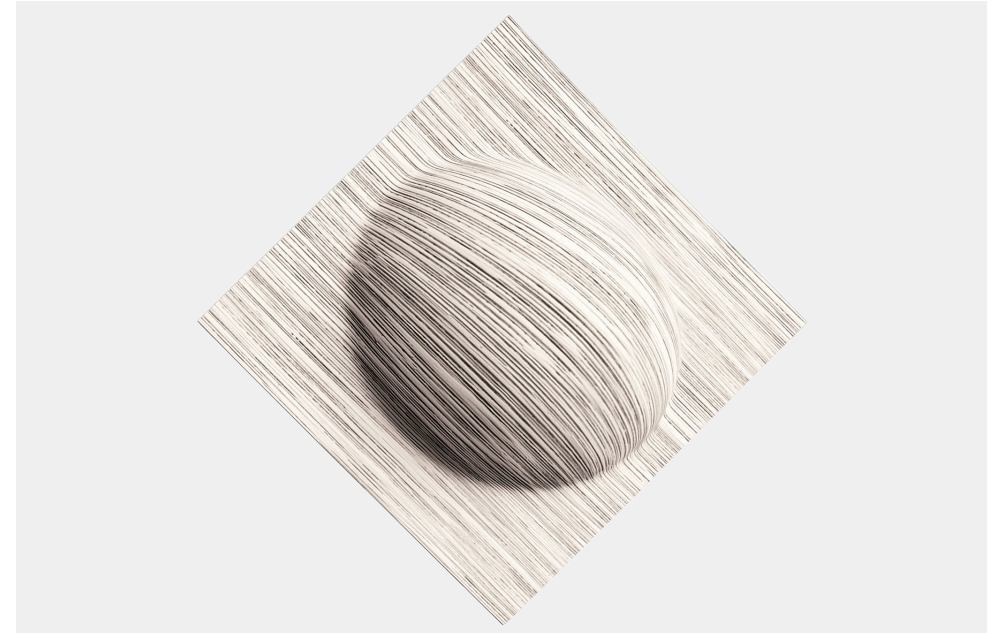
karuun® stripe

- very flexible
due to the long fibres
- every color in linear structure possible
thanks to the innovative colouring
- light treatment with wood stain
very light colors possible
- Two-Tone design
gives you design freedom
- very light after bleaching
thanks to the natural color
- 15% light transmission
at 59° scattering angle with karuun® stripe natura



karuun® 3D

- incomparable 3D shaping
with a special viscose fabric
- small to large spherical objects
from buttons to seat shells
- light
alternative to fibreglass
- surface or substructure
post-forming or moulding
- alternative to plastic
extremely deep drawing possible



karuun® shine

- permeable to air and light
open capillary structure
- 50% light transmission
with natural optic
- acoustic
sound insulation due to irregular small holes
- pleasant to the touch
hard, smooth and durable
- formable
despite being end-grain



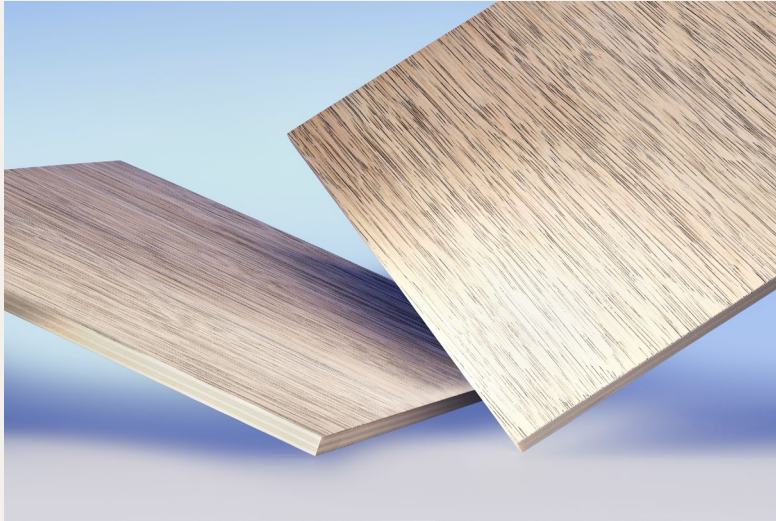
Nature Tech Service

Development in harmony with nature.
Creating innovative products with karuun®.

- Design
comprehensive consulting from
conception to completion
- Implementation
customer-specific support
and implementation
- After Sales
support for partners in all aspects
of care and maintenance



karuun® as an exclusive solution for your project



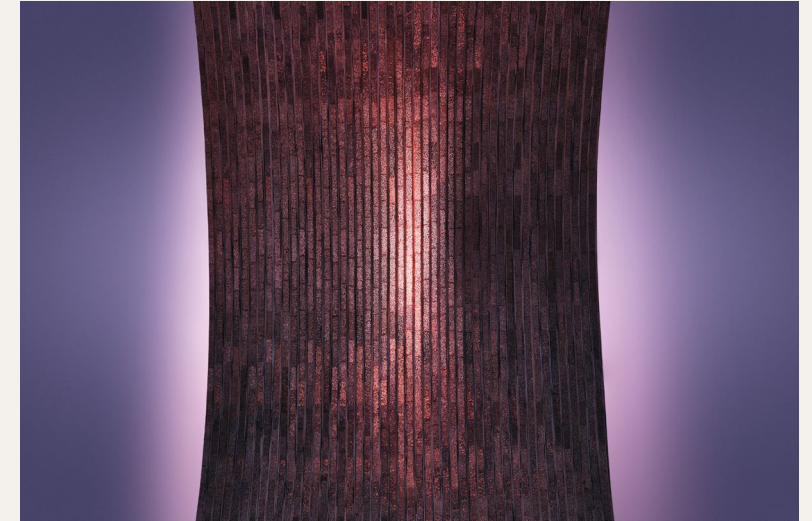
karuun® panel

The first panel made of karuun® as a natural alternative to artificial surfaces.



karuun® color collection

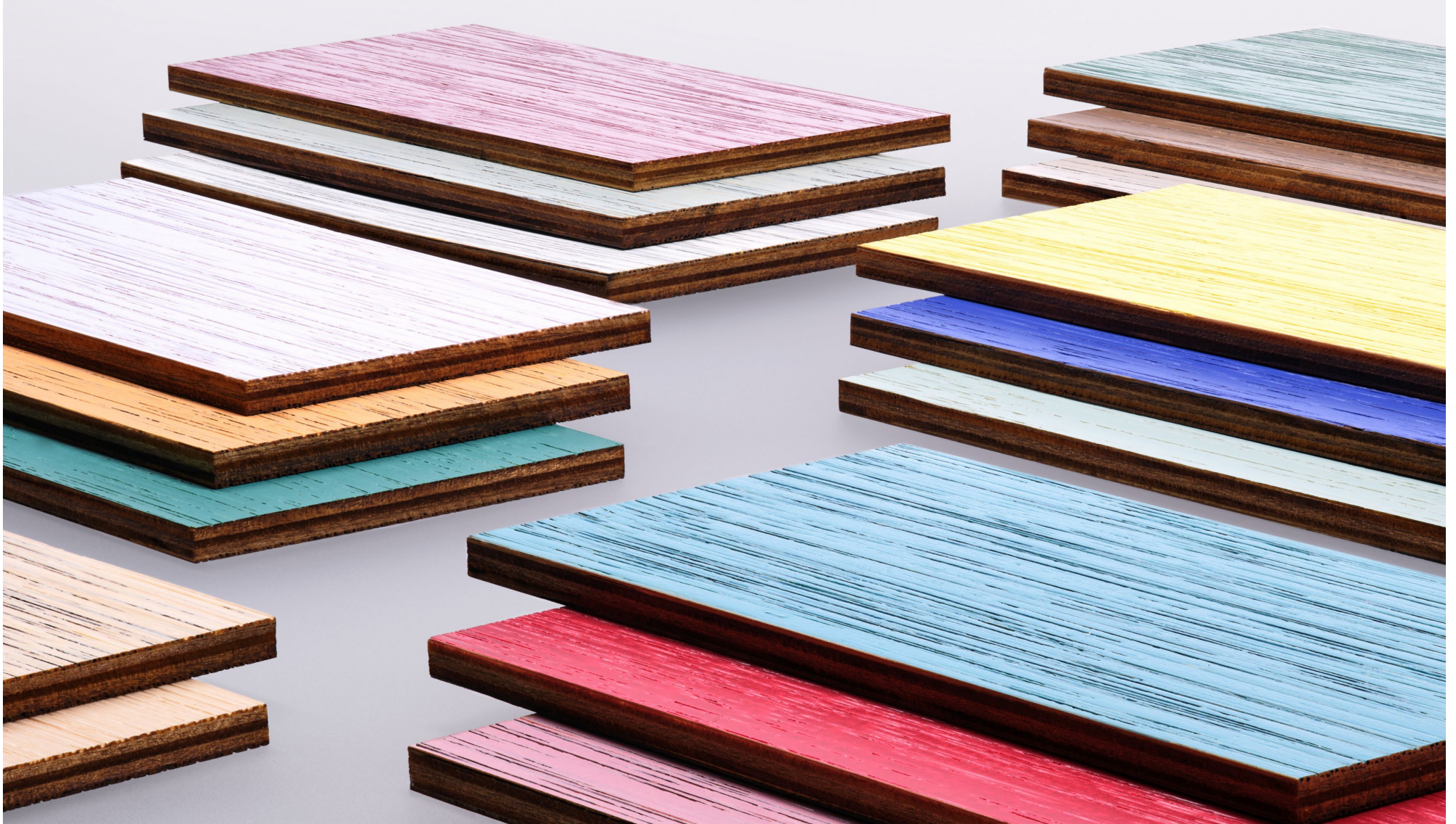
A distinctive color collection that elegantly combines nature and design.



karuun® concepts

A pioneering solution for technical veneers based on karuun® stripe.

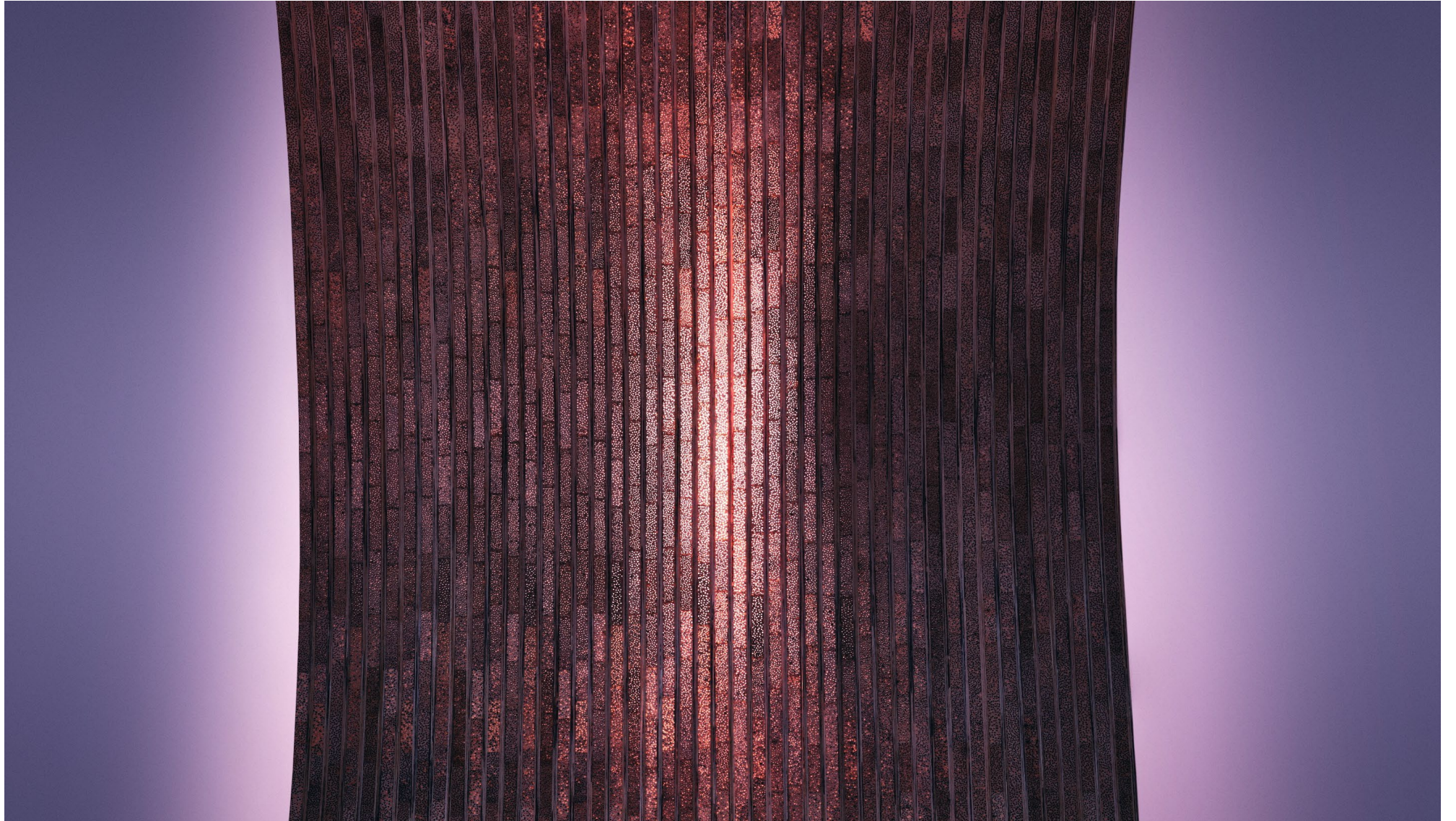
karuun® color collection



karuun®
color
collection



karuun® concepts



karuun® concepts



„As manufacturers of technological veneers with a focus on material combinations, we are constantly looking for new ways to create original designs.

By using Karuun as the foundation for technological advancements, a whole new realm of design is opened up. In the future, we will collaborate with Karuun on creative and sustainable designs. This is just the start.“

– Felix Kruschel, Developer Fritz Kohl Concepts

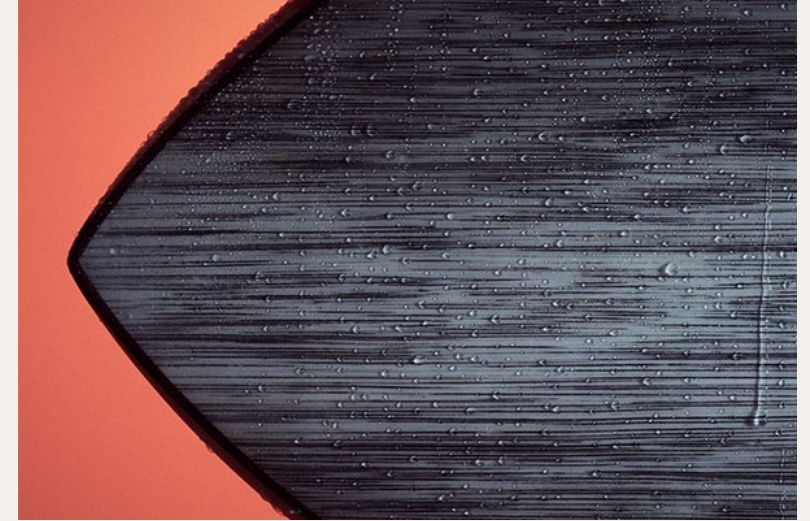
karuun® applications for your industry



Green Mobility



Sustainable Architecture



Replace Plastic

Reference customers



HAWORTH



MAGIS

DUOTONE



Mercedes-Benz



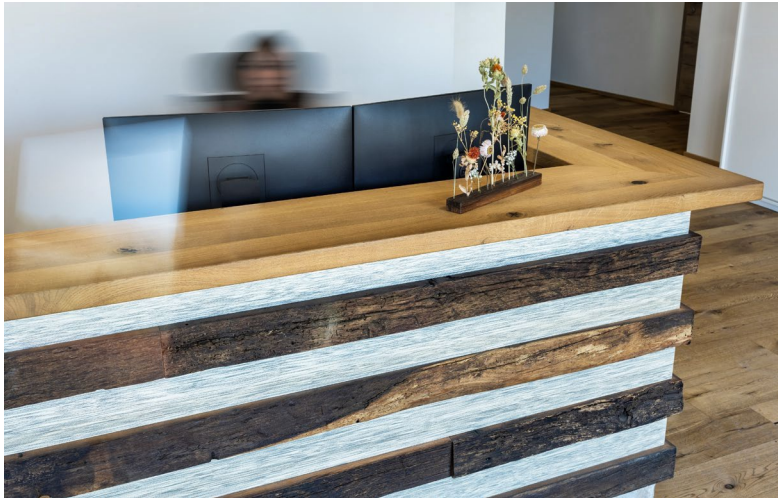
STADLER

HEAD®

Green Mobility



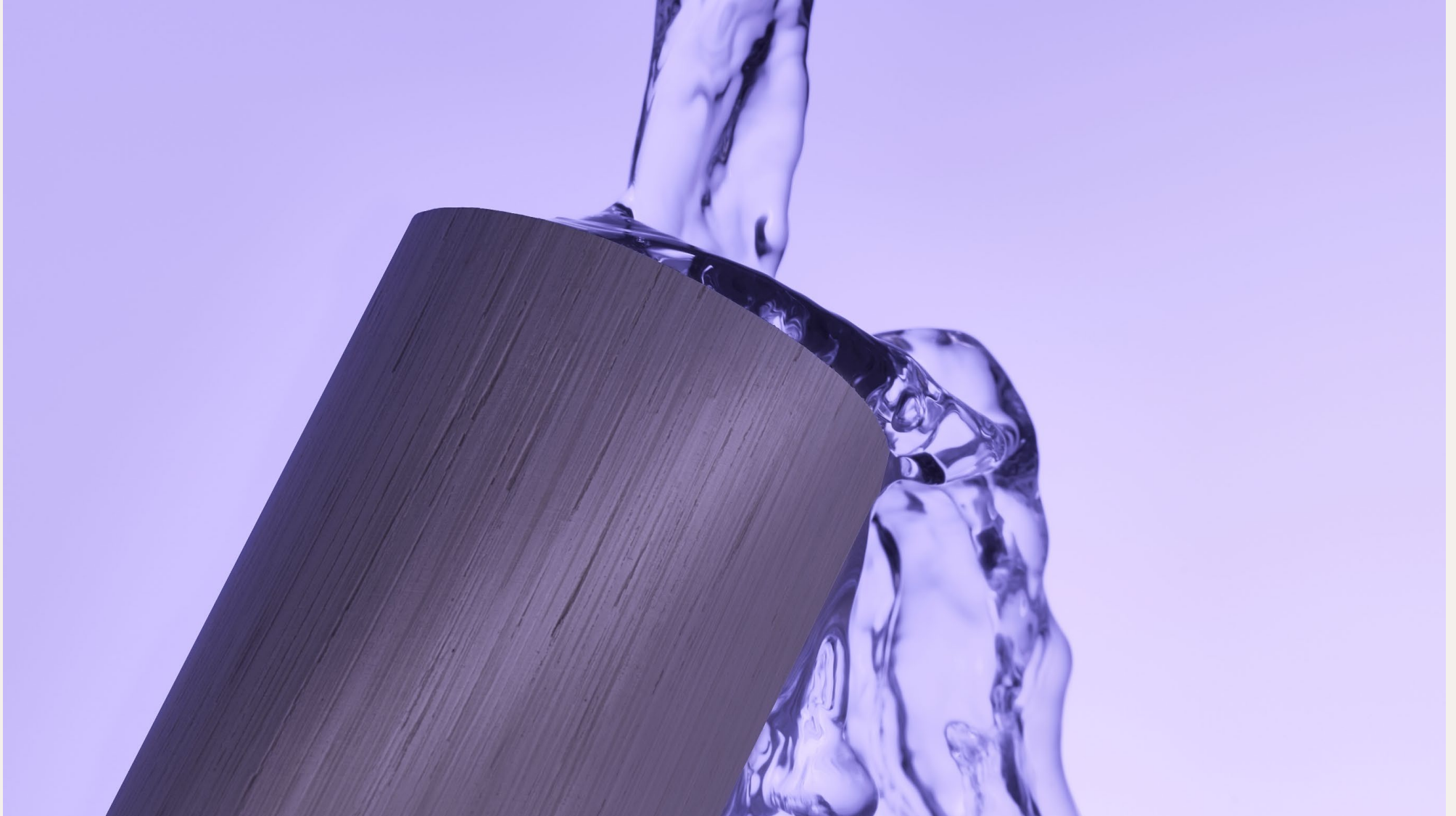
Sustainable Architecture



Replace Plastic



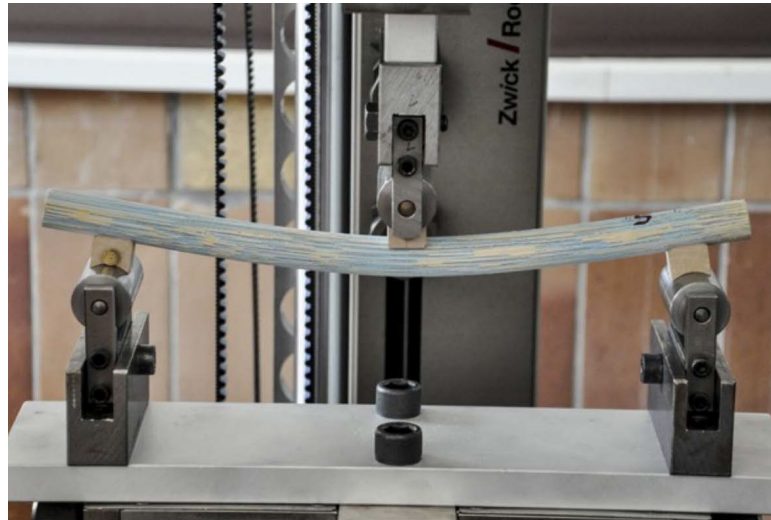
karuun® **Research** **& Design**



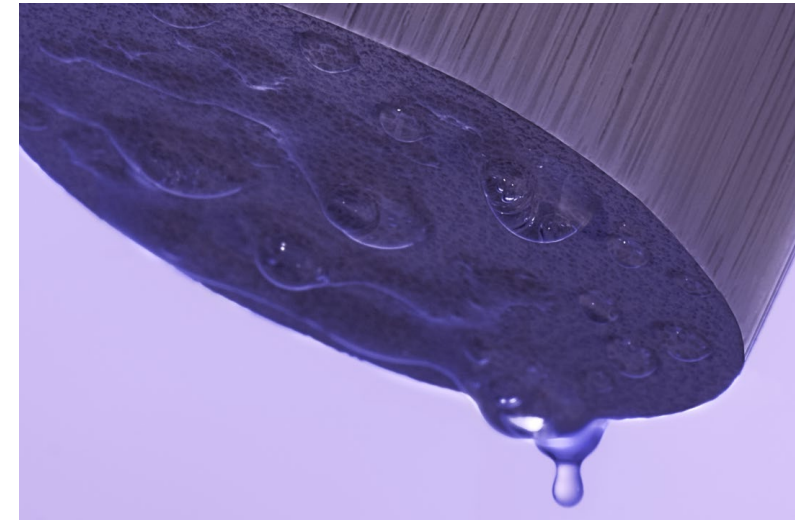
karuun® materials in development



karuun® conductive
Enhancing conductivity



karuun® solid
Enhancing hardness and stiffness

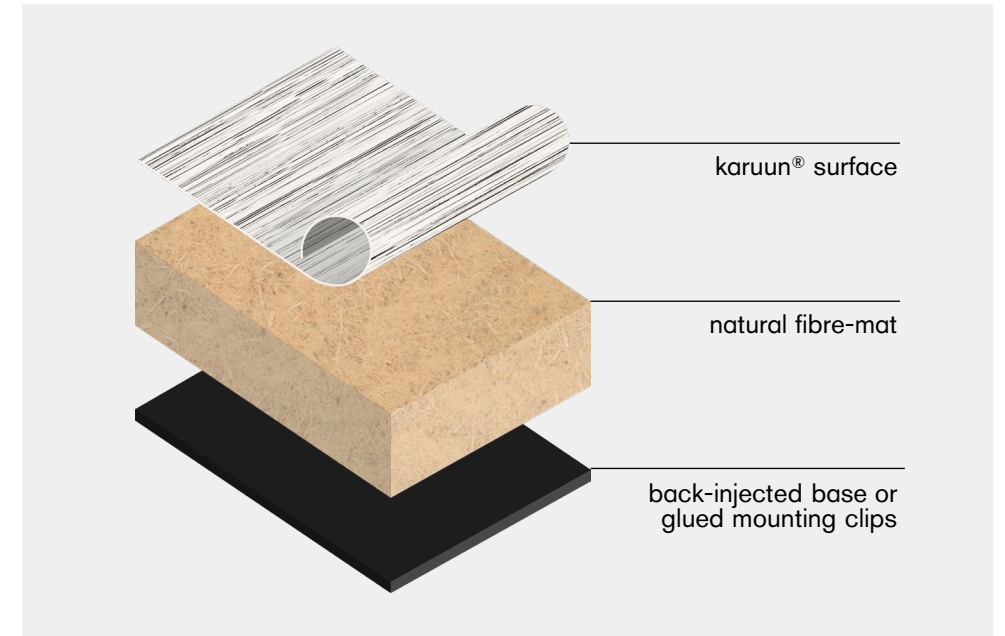


karuun® proof
Enhancing durability and weather-resistance

The symbiosis with natural fibre-mats

karuun® with its unique 3-dimensional shaping properties is the perfect fit to be processed with natural fibre-mats:

- Reduction of plastic content up to 80%
less CO₂ emissions and weight
- Advanced and adaptable production
using automotive-proven materials and toolings
- natural and vegan way to cover 3D-shapeable fibre-mats
broad range of superior karuun® material optics
- sustainable lifecycle
material separation for recycling



Thank you.